Abstract of the Disclosure

Pneumatic Tire

A pneumatic tire has a tread with shoulders, a belt structure located below the tread, and a carcass with two sidewalls, two inextensible annular beads, and a radial ply structure. The shoulders of the tire have a continuous curving radially outer profile so that the shoulders transition smoothly from the tread profile to the tire sidewalls; ideally, the locus of the radii defining the shoulder are located on the inner side of the tire. The tire has a belt structure formed of an annular layer of parallel cords directly adjacent to the radial ply structure, the annular layer having a pair of opposing annular edges and a continuous radius curve profile. Located radially inward of the axial edges of the annular layer of the belt structure is an annular reinforcing strip layer. The strip has a width of not greater than 30mm and extends axially outward of the annular layer edges by a distance of not more than 10 mm.